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METHOD FOR SPOTTING PROBE ONTO SOLID PHASE, PROBE ARRAY AND ITS PRODUCTION, AND DETECTION OF TARGET MATERIAL USING THE SAME, AND SPECIFICATION OF STRUCTURE OF TARGET MATERIAL

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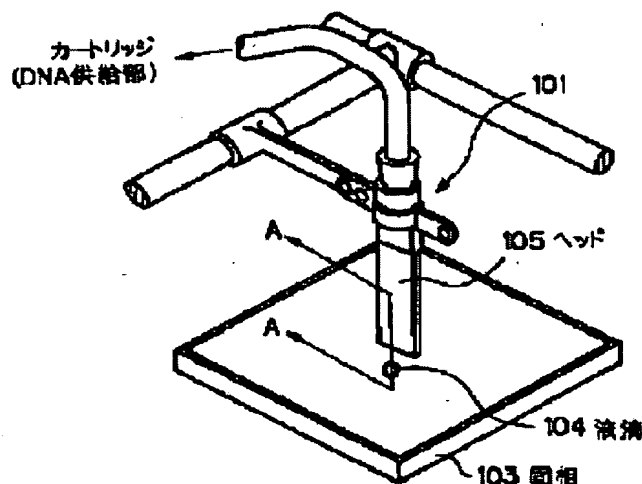
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Abstract of JP11187900

PROBLEM TO BE SOLVED: To provide a method for spotting, in high density, a probe for detecting a target single-stranded nucleic acid, for determining base sequence, and so on, by supplying and attaching liquid which contains a probe which binds specifically to a target material onto solid phase surface by the ink jet method. **SOLUTION:** This method comprises supplying liquid which contains a probe (e.g. singlestranded nucleic acid probe) which is capable of specifically binding to a target material to a bubble jet head 105 which is a kind of ink jet head and has a mechanism which gives thermal energy to the liquid and exhausts it, followed by exhausting and attaching the liquid onto the surface of a solid phase 103 such as a transparent glass plate as a droplet 104 by the ink jet method. This method allows spotting of a probe onto a solid phase to produce a probe array useful for detection of a target single-stranded nucleic acid and specification of base sequence of a target single-stranded nucleic acid.



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